CLOSED BRIDGE • RIVER EMS AT WEENER

Check your bridge clearance

The Ems is tidal: clearance varies with the water level. **+6.37 m NHN is the reference elevation of the bridge underside.** Check the available clearance for the time of passage.

A misjudgement can cause a bridge strike, injury and damage.

CALCULATION FOR PASSAGE PLANNING

Enter the current gauge reading P in centimetres

1143 − _____ ≈ _____

fixed reference value | **P in cm** | **clearance in cm**

Example P = 644 cm → 1143 − 644 ≈ 499 cm = 4.99 m

Indicative only, without a safety margin. Bridge elevation and gauge zero use different height systems (DHHN92/2016). A local correction may be needed. Verify the result with the bridge operator.

CURRENT WATER LEVEL

Scan or click for the graph

WEENER

station 3790020

CLEARANCE WITH THE BRIDGE CLOSED



Higher water = less clearance • schematic

POTENTIAL HAZARDS

- Unclear or incorrect official information.
- Clearance gauge difficult to read or readable only at close range.
- Unfamiliarity with the navigation area.
- **Large tidal range:** widely varying clearance.
- **Rapid water-level changes:** readings can quickly become outdated.

CHECK BEFORE PASSAGE

1 Check the reading and tide

At WEENER, check the date, time and rate of water-level rise or fall. Refresh the reading just before passage.

2 Contact the bridge operator

Have the clearance confirmed. Follow navigation signals and check the local clearance gauge in good time.

3 Know your vessel's air draught

Include masts, antennas and other protruding parts. Add an appropriate safety margin to your vessel's air draught.

4 If in doubt do not pass

If information conflicts, do not pass. Slow down early and keep room to abort. Wait for opening and authorisation if needed.

Confirmed clearance > vessel's air draught + safety margin

Basis 6.37 − (−5.06) = 11.43 m. Only for this bridge and the Weener gauge.

Sources WSV PEGELONLINE Weener | Gauge zero (PNP) | DB design §4.2 pp. 17–19

Prepared with a PZI member • 31 October 2026 • Calculation does not replace assessment of safe passage

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